OIPE

RAW SEQUENCE LISTING   DATE: 01/04/2002
PATENT APPLICATION: US/10/006,285   TIME: 10:49:05

Input Set : D:\pa0039sl.txt
Output Set: N:\CRF3\01042002\J006285.raw

```
 2 <110> APPLICANT: Mary Jane Cunningham
 3         Matthew R. Kaser
 5 <120> TITLE OF INVENTION: MARKER GENES RESPONDING TO TREATMENT WITH TOXINS
 7 <130> FILE REFERENCE: PA-0039 US
 9 <140> CURRENT APPLICATION NUMBER: US/10/006,285
10 <141> CURRENT FILING DATE: 2001-12-05
12 <160> NUMBER OF SEQ ID NOS: 514
13 <170> SOFTWARE: PERL Program
15 <210> SEQ ID NO: 1
16 <211> LENGTH: 150
17 <212> TYPE: DNA
18 <213> ORGANISM: Rattus norvegicus
20 <220> FEATURE:
21 <221> NAME/KEY: misc_feature
22 <223> OTHER INFORMATION: Incyte ID No: 700066666H1
24 <400> SEQUENCE: 1
25 gtccatccgg aaggaagctc acctaggttt gtgggaataa cagcacatat cagaagccag 60
26 acatactctc tggtcacgta ctttgggaca ggagcatgaa atgcttcctc atgacaccta 120
27 cagaagtaga ggtctttggg tctagtcatt                                  150
29 <210> SEQ ID NO: 2
30 <211> LENGTH: 244
31 <212> TYPE: DNA
32 <213> ORGANISM: Rattus norvegicus
34 <220> FEATURE:
35 <221> NAME/KEY: misc_feature
36 <223> OTHER INFORMATION: Incyte ID No: 700138330H1
38 <400> SEQUENCE: 2
39 agccactcta actaggggcg tgctgagaca agaccacctc attcctctgc tgcttttcag 60
40 acaggactgt cctgccgacc caccatgatc caggctgcac tgttccttgg ctgtatctta 120
41 ctgtcctcgg tgaccgcctt tccatggaag actcaggatg gtggcctgcc ccatcagcca 180
42 gctggcacag aaactgagcc tacacaactg ctctacagca agagtcctcc tccgacctcc 240
43 agta                                                             244
45 <210> SEQ ID NO: 3
46 <211> LENGTH: 235
47 <212> TYPE: DNA
48 <213> ORGANISM: Rattus norvegicus
50 <220> FEATURE:
51 <221> NAME/KEY: misc_feature
52 <223> OTHER INFORMATION: Incyte ID No: 700138340H1
54 <400> SEQUENCE: 3
55 aaaagttaaa aacctaagct cacctcgtcc ggtgatgctg ttcgctgttt gcaatactct 60
56 gaagatctac agcaaagcaa ggggatcctc attcgtaaat aatttccagt gcacgacggt 120
57 ctttgaattt accatgtcta gaatagagtt cagtttattt tagctcacat aggaattcac 180
58 tggcatccat ctgccgttaa tataatatca agtggttaga aataaatgca ccaac       235
60 <210> SEQ ID NO: 4
61 <211> LENGTH: 304
62 <212> TYPE: DNA
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63 <213> ORGANISM: Rattus norvegicus
65 <220> FEATURE:
66 <221> NAME/KEY: misc_feature
67 <223> OTHER INFORMATION: Incyte ID No: 700230507H1
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70 ccaacatgca gggcagcacg agaagagcgg gagccatgac agatgtgcat cggcgcttcc 60
71 tccagctgct gatgactcat ggcgtgctgg aggagtggga ggttaggcgc ctgcagaacc 120
72 actgctacaa agtccacgac cgaaatgcta ctgtagataa gctggaggac ttcatcaaca 180
73 atatcaacag tgtcctggag tctctgtata ttgagataaa gaaaggcatc acagaggatg 240
74 acgggagacc catttatgca ctggtgaatc ttgctacaac ttcagtttcc aaaatggcca 300
75 cgga   304
77 <210> SEQ ID NO: 5
78 <211> LENGTH: 303
79 <212> TYPE: DNA
80 <213> ORGANISM: Rattus norvegicus
82 <220> FEATURE:
83 <221> NAME/KEY: misc_feature
84 <223> OTHER INFORMATION: Incyte ID No: 700275105H1
86 <220> FEATURE:
87 <221> NAME/KEY: unsure
88 <222> LOCATION: 61-62
89 <223> OTHER INFORMATION: a, t, c, g, or other
91 <400> SEQUENCE: 5
92 gtgagcgtgc cgaggcgaca gctgccgacc tgccaggtgg gtgctgtccc gaagcgcaca 60
93 nngatcggcg ccggtttgga ggtttggagc ccgggacttc aacctcaccg ccccatccta 120
94 tgtcaccatg ttgtgcaccc tgttcctgct actgctggcc ctgggcatag tgcagacaac 180
95 tcggccatgt ttccctggct gccagtgtga ggaagagacg tttggcctct ttgacagttt 240
96 cagcctgatc cgagtggact gcagcagcct gggcccccac attgtgcctg tgcccatccc 300
97 tct   303
99 <210> SEQ ID NO: 6
100 <211> LENGTH: 286
101 <212> TYPE: DNA
102 <213> ORGANISM: Rattus norvegicus
104 <220> FEATURE:
105 <221> NAME/KEY: misc_feature
106 <223> OTHER INFORMATION: Incyte ID No: 700062791H1
108 <400> SEQUENCE: 6
109 ccggctcact accccagcca ccctcaccct gccagagatt gccgccagcg gcctcacgcg 60
110 gatgtttgcc cccaccctac cctctgacct gctggtcaat gtctacatca acctcaacaa 120
111 gctgtgcctc actgtgtacc agctgcacac tctgcagccc acctccacca agaacttccg 180
112 ccccgccgga ggtgcagtgc tccacagccc aggggcaatg tttgaatggg gctcccagcg 240
113 cctcgaagtg agccacgtac acaaggtaga atctgtgatc ccctgg   286
115 <210> SEQ ID NO: 7
116 <211> LENGTH: 279
117 <212> TYPE: DNA
118 <213> ORGANISM: Rattus norvegicus
120 <220> FEATURE:
121 <221> NAME/KEY: misc_feature
122 <223> OTHER INFORMATION: Incyte ID No: 700250279H1

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124 <400> SEQUENCE: 7
125 atttagaagg ctgtctcctt atttaaataa agttttgttt gttgtctgta gttagtgttg 60
126 ggcaattttg gggggaatgt tcttctctaa tctttgcaga aactttggct tcgaacactt 120
127 aaatggacaa gatcaggact tgagcagaag accgaattta acattcaggc aggaaagaca 180
128 aattttattc tccatgcagt gatgagcatt taataattgc aggcctggca tagaggccct 240
129 ttaaggacta agtaccttag gcaggttgga aatgatggt 279
131 <210> SEQ ID NO: 8
132 <211> LENGTH: 283
133 <212> TYPE: DNA
134 <213> ORGANISM: Rattus norvegicus
136 <220> FEATURE:
137 <221> NAME/KEY: misc_feature
138 <223> OTHER INFORMATION: Incyte ID No: 700312413H1
140 <400> SEQUENCE: 8
141 gcgaaatcca taactggtcc ccattagcca agaaaccttc tgttgccata aattgggggc 60
142 agtccacttc tagcgctgta gaagtaccct tagtctcagt gggcattgtg cccccagacc 120
143 gcacagagaa cagtcaacat cacctaaaat cattgctgac ctccttggtc cccagggcca 180
144 accaccgctc tcccagggct gctctcatat agttcctggc tataggagct aaactcatgt 240
145 tggtcttcat tttggcctct ttggttttcc taaagcacaa atc 283
147 <210> SEQ ID NO: 9
148 <211> LENGTH: 294
149 <212> TYPE: DNA
150 <213> ORGANISM: Rattus norvegicus
152 <220> FEATURE:
153 <221> NAME/KEY: misc_feature
154 <223> OTHER INFORMATION: Incyte ID No: 700308908H1
156 <400> SEQUENCE: 9
157 cttgactttc agtcttcaag gcatgacatg gcagtggctg cttcccctac cactagctgc 60
158 cccctcatgg tagtctgggg gacagaggtg gtctgtgttt acaagggcag tcaagaccag 120
159 tcacccatat tatgcatcaa tattagacga agccctgggc tgaagggcag tgctgtcagc 180
160 taggcagcta ctctgggttt cggagagtag tattggtttc agtctggtct cattcccatt 240
161 gccttaatgc tgggtggtca gggccccaca gagctctgga tctaagctca ggag 294
163 <210> SEQ ID NO: 10
164 <211> LENGTH: 226
165 <212> TYPE: DNA
166 <213> ORGANISM: Rattus norvegicus
168 <220> FEATURE:
169 <221> NAME/KEY: misc_feature
170 <223> OTHER INFORMATION: Incyte ID No: 700139239H1
172 <400> SEQUENCE: 10
173 gtggcttctt ccttggggga attgtattca tgtttaataa agagattgga ctgttctggc 60
174 tcctgtcttt agagcaaagc agctaagtcc tgagaggagg gaaggagaga gggagccagg 120
175 gccccagggc ccgcagaggg actccagatg accagtttac ctgacagcag gatgcggttt 180
176 gtaccacaga gcccgcctcc tgctggggtc tttcagtggc ttcttc 226
178 <210> SEQ ID NO: 11
179 <211> LENGTH: 248
180 <212> TYPE: DNA
181 <213> ORGANISM: Rattus norvegicus
183 <220> FEATURE:

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184 <221> NAME/KEY: misc_feature
185 <223> OTHER INFORMATION: Incyte ID No: 700131403H1
187 <400> SEQUENCE: 11
188 gacccacact ctatctggta ctggacaaca gccatgcctt caggtggcag aaacctagga 60
189 aggagcctgg tctcaaaagt aatagggccc ttcaggtgtc agacacagtg ctgggcatca 120
190 ggcagaccaa acctgacctg attggagact catagattag agagcttgga gttagacctg 180
191 tggccaggaa attccatggt caccgctcag accagtcccg attgccttgc agacctgcct 240
192 tgagccgt 248
194 <210> SEQ ID NO: 12
195 <211> LENGTH: 249
196 <212> TYPE: DNA
197 <213> ORGANISM: Rattus norvegicus
199 <220> FEATURE:
200 <221> NAME/KEY: misc_feature
201 <223> OTHER INFORMATION: Incyte ID No: 700062506H1
203 <400> SEQUENCE: 12
204 gcgtctggtt tcgggtttta ttttagaatt tataaaattc cagtgtcatc catattcatg 60
205 agcctttaca catgtttgca tataatctcc aaattccaaa gttaaggcca agggacggat 120
206 gtagctatgg aaacacagga catggaagac attcaacaag gaggaaaaga cactccccac 180
207 ccctgcccta ggctcctcaa tgtcttggag ctgcagaga ggtgacctgg gtacagtcaa 240
208 tttcatagt 249
210 <210> SEQ ID NO: 13
211 <211> LENGTH: 198
212 <212> TYPE: DNA
213 <213> ORGANISM: Rattus norvegicus
215 <220> FEATURE:
216 <221> NAME/KEY: misc_feature
217 <223> OTHER INFORMATION: Incyte ID No: 700135749H1
219 <400> SEQUENCE: 13
220 cattgtgtcc tggccacata tggaggcatt gctttgttgg tcctatactt taagttaagg 60
221 cctaaaaaaa ccccagctgt gaaagcaaca taaatggatt ttgaaatgtc tggccttatc 120
222 tgttaagtcc cacgcctgaa gaagctgatg tgaactcatc atgtaatact caatttgtac 180
223 aataaattat gaacctgg 198
225 <210> SEQ ID NO: 14
226 <211> LENGTH: 81
227 <212> TYPE: DNA
228 <213> ORGANISM: Rattus norvegicus
230 <220> FEATURE:
231 <221> NAME/KEY: misc_feature
232 <223> OTHER INFORMATION: Incyte ID No: 700330824H1
234 <400> SEQUENCE: 14
235 atttgctcct tggtgccata cacaaatgtc tcggaaactc acaagatgct gttcagttct 60
236 tccagcgagc tgctaaagac g 81
238 <210> SEQ ID NO: 15
239 <211> LENGTH: 181
240 <212> TYPE: DNA
241 <213> ORGANISM: Rattus norvegicus
243 <220> FEATURE:
244 <221> NAME/KEY: misc_feature
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Input Set : **D:\pa0039sl.txt**
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```
245 <223> OTHER INFORMATION: Incyte ID No: 700024728H1
247 <400> SEQUENCE: 15
248 aaacttggaa gattttaaac ctacccagaa gtccacctgg gtgcttgata ctcatgttct 60
249 ctccctctct ccctctctgc ctctttcttc ccttccccct ccctcctgat ttgcttgtta 120
250 ctcttgatgc accagcattg gcgataataa attttctcgt tctgagtatt ttgctttgcc 180
251 t                                                                  181
253 <210> SEQ ID NO: 16
254 <211> LENGTH: 229
255 <212> TYPE: DNA
256 <213> ORGANISM: Rattus norvegicus
258 <220> FEATURE:
259 <221> NAME/KEY: misc_feature
260 <223> OTHER INFORMATION: Incyte ID No: 700024834H1
262 <400> SEQUENCE: 16
263 cctctcccgg gggccagatg aagggcttgg atagtgtggc tgcccaagcc ctctcccggg 60
264 ggccagaagc aggtcactca cctgtttccc ccctgaccct ccttctgaac cccatgtatc 120
265 atagggaact ttcaccttct ggtctttcta agcaaagtgt gaataggatt tttactccct 180
266 ttgtacagta ttctgaacaa tgcaaataaa gagcaccgtg tctgtttcc           229
268 <210> SEQ ID NO: 17
269 <211> LENGTH: 293
270 <212> TYPE: DNA
271 <213> ORGANISM: Rattus norvegicus
273 <220> FEATURE:
274 <221> NAME/KEY: misc_feature
275 <223> OTHER INFORMATION: Incyte ID No: 700059927H1
277 <400> SEQUENCE: 17
278 atttctcttt aaaaaatatg ctaagtacaa ggattcttta gtacttggaa agtttaatac 60
279 gcttgtcaca gagctcaggg tttgatgatt agagcagggg attagctcta tctgacacct 120
280 tctgtatctt cattctaaag tggggtcatg cttttagggg tggtgtggcg ggtgccatgg 180
281 aagtggtaat gcatgtgttg atgcagggat tatgcaagct gaaacttgtt ctcaggggcc 240
282 atgtcagatg tgtgagaata cctggactcc tggttttcct ccatagtaaa ggg        293
284 <210> SEQ ID NO: 18
285 <211> LENGTH: 306
286 <212> TYPE: DNA
287 <213> ORGANISM: Rattus norvegicus
289 <220> FEATURE:
290 <221> NAME/KEY: misc_feature
291 <223> OTHER INFORMATION: Incyte ID No: 700060675H1
293 <400> SEQUENCE: 18
294 gcagtcagtc tctcctgctc actgttctcc ctctctgtgc tcaagtctgt cagtgctcgc 60
295 tggcctctgg ctcttccctt tggggaggga gcggctgttc tgcctgcttc accgagtctt 120
296 cacaagctga ggggatgagg ccaggttagt accagggacc agcaaccttt cagggctcct 180
297 tgggggtctc aggtccacac acagtgagca tcccttgcca ggtgccccat gtatctgtca 240
298 gtgctgagac gccaaacaca caacctgttc ccagctgctg ctggggggcca ctgtgaccga 300
299 ggagag                                                            306
301 <210> SEQ ID NO: 19
302 <211> LENGTH: 222
303 <212> TYPE: DNA
304 <213> ORGANISM: Rattus norvegicus
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Use of n and/or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/006,285

DATE: 01/04/2002
TIME: 10:49:06

Input Set : **D:\pa0039sl.txt**
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```
L:9 M:270 C: Current Application Number differs, Replaced Current Application Number
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:93 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:697 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44
L:1296 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82
L:1558 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:99
L:1672 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:106
L:1931 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:122
L:2500 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:157
L:2557 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:160
L:3985 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:225
L:4231 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:233
L:4232 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:233
L:4233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:233
L:4393 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:239
L:4421 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:240
L:4552 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:243
L:4553 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:243
L:4669 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:247
L:4874 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:254
L:5570 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:275
L:5571 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:275
L:5776 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:281
L:6037 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:288
L:6133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:292
L:6134 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:292
L:6688 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:307
L:6689 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:307
L:6938 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:315
L:6977 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:316
L:6978 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:316
L:6994 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:316
L:6996 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:316
L:6997 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:316
L:7094 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:319
L:7373 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:326
L:7808 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:341
L:8004 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:350
L:8254 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:361
L:8375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:366
L:9378 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:401
L:9518 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:403
L:9520 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:403
L:9606 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:404
L:9876 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:409
L:9879 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:409
L:9935 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:410
L:9955 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:411
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L:9960  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:411
L:10524 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:422
L:10623 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:424
L:10624 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:424
```